

#2

SD6533/S93794
February 16, 2001

IN THE U.S. PATENT AND TRADEMARK OFFICE



APPLICANTS: Shepard, et al.

SERIAL NO.: Unknown

GROUP NO.

FILED: February 16, 2001

EXAMINER:

FOR: METHOD OF GENERATING A MESH REPRESENTATION
OF A REGION CHARACTERIZED BY A TRUNK AND A
BRANCH THEREON

Assistant Commissioner for Patents
Washington, D.C. 20231

February 16, 2001

INFORMATION DISCLOSURE STATEMENT

The following sections are being submitted for this Information Disclosure Statement:

1. Preliminary Statements

Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose.

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made (37 CFR 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

The filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

2. Form PTO - 1449 (Modified).

3. The person making this statement is the attorney or agent who signs below on the basis of the information supplied by the inventor(s) and the information in the attorney's or agent's file.

Dated: 2/14/2001

Phone: (505) 284-4404
FAX: (505) 844-2363

V. Gerald Grafe
V. Gerald Grafe
Patent Attorney, Reg. No. 42,599
Sandia National Laboratories
Patent and Licensing Center, 11500
P. O. Box 5800 / MS 0161
Albuquerque, New Mexico 87185-0161

Information Disclosure Statement
Shepherd, et al
SD6533/S93794
Page 2

CERTIFICATE OF MAILING

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the U. S. Postal Service on the date shown below in an envelope addressed to the: Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

Dated: 2-16-01

Marilynn A. Gabel
Marilynn A. Gabel

Form PTO-1449 (SNL-Modified) (2-91)

List of Patents and Publications
for Applicant's

Information Disclosure Statement

(use several sheets if necessary)

Atty Docket No: SD6533/S93794

Serial Number:

APPLICANT: Jason Shepherd, et al.

GROUP: FILING DATE: February 16, 2001

REFERENCE DESIGNATION

Ex'r				U.S. Patent Documents		Sub		
Init		Document No.	Date	Name	Class	Class	File Date	
				Foreign Patent Documents		Sub	Translation	
		Document No.	Date	Name	Class	Class	Yes	X No

jc973 U.S. PTO
09/788053
02/16/01

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

- [BA] ✓ | Benzley et al., "A Comparison of All-Hexahedral and All-Tetrahedral Finite Element Meshes for Elastic and Elasto-Plastic Analysis," *Proceedings 4th International Meshing Roundtable, Sandia National Laboratories* 95, pp. 179-191 (October 1995)
- [BB] ✓ | Cifuentes and Kalbag, "A Performance Study of Tetrahedral and Hexahedral Elements in 3-D Finite Element Structural Analysis," *Finite Elements en Analysis and Design*, Vol. 12, pp. 313-318 (1992)
- [BC] ✓ | Mitchell, "A Characterization of the Quadrilateral Meshes of a Surface Which Admit a Compatible Hexahedral Mesh of the Enclosed Volume," *Proceedings, 13th Annual Symposium on Theoretical Aspects of Computer Science (STACS '96), Lecture Notes in Computer Science* 1046, Springer, pp. 465-476 (1996)
- [BD] ✓ | Staten et al., "BMSweep: Locating Interior Nodes During Sweeping," *Proceedings 7th International Meshing Roundtable* 98, pp. 7-18 (October 1998);
- [BE] ✓ | Blacker, "The Cooper Tool," *Proceedings 5th International Meshing Roundtable* 96, pp. 13-29 (October 1996)
- [BF] ✓ | Mingwu and Benzley, "A Multiple Source and Target Sweeping Method for Generating All Hexahedral Finite Element Meshes" *Proceedings, 5th International Meshing Roundtable* 96, pp. 217-225 (October 1996)
- [BG] ✓ | White, "Automatic, Quadrilateral and Hexahedral Meshing of Pseudo-Cartesian Geometries using Virtual Decomposition," *Master's Thesis, Brigham Young University* (August 1996)
- [BH] ✓ | Tautges et al., "The Whisker Weaving Algorithm: A Connectivity-based Method for Constructing All-hexahedral Finite Element Meshes," *International Journal for Numerical Methods in Engineering*, Vol. 39, pp. 3328-3349 (1996)
- [BI] ✓ | Canann, "Plastering: A New Approach to Automated, 3-D Hexahedral Mesh Generation," *American Institute of Aeronautics and Astronautics*, (1992)

- |BJ | *Meyers et al.*, "The "Hex-Tet" Hex-Dominant Meshing Algorithm as Implemented in CUBIT;" *Proceedings 7th International Meshing Roundtable* 98, pp. 151-158, (October 1998)

- |BK | *Murdoch and Benzley*, "The Spatial Twist Continuum", *Proceedings, 4th International Meshing Roundtable* 95, pp. 243-251 (October 1995)

- |BL | *Mitchell and Tautges*, "Pillowing Doublets: Refining a mesh to ensure that faces share at most one edge" on the web at endo.sandia.gov/~samitch/pillow-doublets.pdf,